

Site: Union Pacific Railroad – Aluminum Recycling Trentwood Site

Date/Time of Inspection: 6/06/2024 11:30 am

Inspected by (print name): James Roman

Weather: 70 F, Sunny, 0-5 mph Winds, 33 AQI

Ecological Cap Inspection

General: The Union Pacific Railroad (UPRR) property, Spokane County parcels 45114.9030 and 45114.9181 remain capped as required by the Enforcement Order DE 20752 (Ecology 2021) and as documented in the Cleanup Action Report (WSP 2024), providing a barrier to human and ecological receptor direct contact with underlying site soils and is chiefly functioning as intended. A small area of exposed soil and damaged geotextile on the ecological cap was observed that requires minor maintenance. No signs of erosion, ponding, settlement, or slope failure of the ecological cap (including the south slope) were observed.

The surface water features and site security features appeared to be in good condition.

Ecological Cap damage location and description:

Evidence of vehicle use (tire tracks) was present at the Kemira Water Solutions, Inc. (Kemira) Facility access point to the inside of the bermed portion of the cap. An area approximately 5-foot by 6-foot of geotextile was damaged and underlying material were exposed in this area, see photographs 3a and 3b. The damaged geotextile requires maintenance, and the overlying gravel needs to be replaced. A barricade should be placed across the access point to limit vehicular traffic.

Surface Water Features:

The surface water features, including the berms, railroad ditch, and overflow channel, all appeared to be in good condition, see photographs 4, 6, 7, 9, 10, and 11.

Security:

The site security features, including the site entrance gate and security fencing, all appeared to be in good condition, see photographs 2, 8, 11, 12, 13, and 14.

Additional Notes:

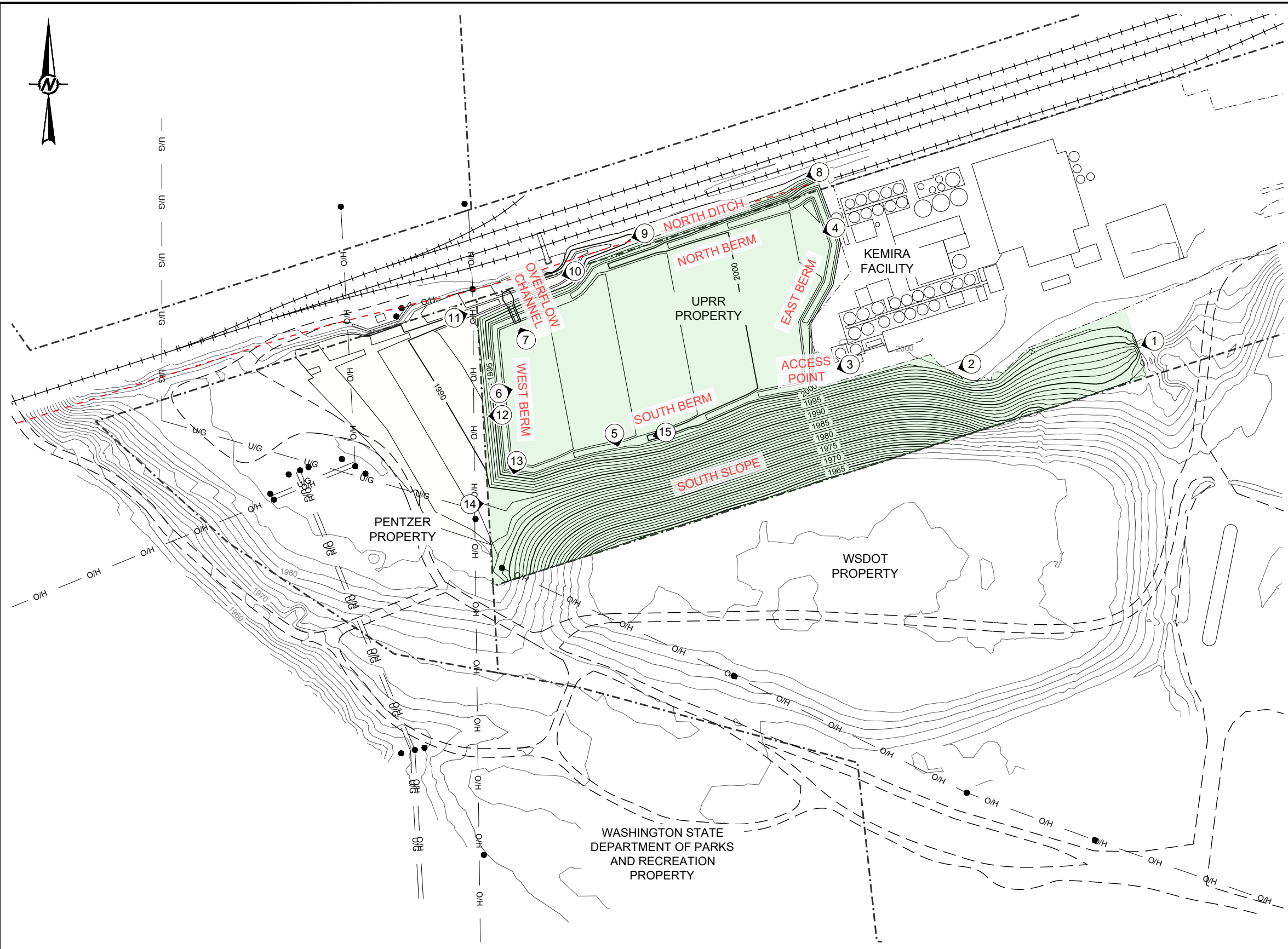
- 1) Evidence of driving (tire tracks) was observed on the ecological cap, and railroad ditch, see photographs 3A, 3B, and 11.
- 2) Most vegetated areas on the WSDOT and Pentzer properties appeared to be undisturbed and are still sprouting, see photographs 2, 5, 12, and 13.
- 3) The ecological cap (with the exception of photograph 3B) appeared to be intact and well maintained.

References

- 1) Washington State Department of Ecology (Ecology). 2021. Union Pacific Railroad Company. Enforcement Order No. DE 20752. Aluminum Recycling Trentwood Site. September.
- 2) WSP USA Inc. (WSP). 2024. *Cleanup Action Report Union Pacific Railroad, Aluminum Recycling Trentwood Site*. May 4.

Figure

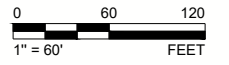
Path: \\gdr\gdr\gis\comp\data\office\Bureau\geomatics\Urban\Railroad\Trentwood\VA09_PROJECTS\19119180_1000B02_PRODUCT\DWG\1 File Name: 19119180_1000B_020.dwg | Last Edited By: rrayner Date: 2022-05-16 Time: 9:14:38 AM | Printed By: rrayner Date: 2022-05-16 Time: 10:13:07 AM



LEGEND

	PROPERTY BOUNDARY
	ACCESS ROAD
	RAILROAD TRACK
	POWER POLE
	OVERHEAD POWER LINE
	UNDERGROUND POWER LINE
	APPROXIMATE EDGE OF PAVEMENT
	EXISTING MAJOR CONTOUR (10-FT INTERVAL)
	EXISTING MINOR CONTOUR (2-FT INTERVAL)
	PROPOSED MAJOR CONTOUR (5-FT INTERVAL)
	PROPOSED MINOR CONTOUR (1-FT INTERVAL)
	ECOLOGICAL CAP
	25FT RAILROAD BUFFER (SEE NOTE 1)
	PHOTO LOCATION AND DIRECTION

NOTE(S)
 1. ALL PERSONNEL WITHOUT PROPER RAILROAD SAFETY TRAINING ARE PROHIBITED FROM ENTERING THE RAILROAD BUFFER ZONE.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 ALUMINUM RECYCLING TRENTWOOD SITE
 REMEDIAL ACTION - DROSS REMOVAL PROJECT
 SPOKANE VALLEY, WASHINGTON

CONSULTANT

YYYY-MM-DD	2022-05-17
DESIGNED	VMN
PREPARED	REDMOND
REVIEWED	FSS
APPROVED	TJN



TITLE
INSPECTION AND MAINTENANCE FEATURES

PROJECT NO. 19119180	PHASE 1000	REV. B	FIGURE 1
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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM .ANSI D

Photolog

PHOTOGRAPH 1

Ecological cap south slope overview. View looking west-southwest.



PHOTOGRAPH 2

Ecological cap south side slope from Kemira Facility. View looking west-southwest.



**PHOTOGRAPH 3A AND
PHOTOGRAPH 3B**

Kemira facility ecological cap
overview (3a) and closeup of
compromised cap area (3b).
Views looking west.



PHOTOGRAPH 4

Ecological cap and berm overview. View looking west.



PHOTOGRAPH 5

Ecological cap south slope and WSDOT property below. View looking south.



PHOTOGRAPH 6

Ecological cap overview. Looking east toward Kemira facility.



PHOTOGRAPH 7

Top of Overflow Channel.
View looking north.



PHOTOGRAPH 8

North berm overview and
railroad ditch north side of
UPRR property. View looking
west.



PHOTOGRAPH 9

Railroad ditch overview. View
looking west.



PHOTOGRAPH 10

Overflow channel area leading into railroad ditch. View looking west-southwest.



PHOTOGRAPH 11

Railroad ditch and overflow channel. View looking east-northeast.



PHOTOGRAPH 12

West Berm and Pentzer Property. View looking west.



PHOTOGRAPH 13

Southwest corner of Ecological Cap and access gate. View looking south-southwest.



PHOTOGRAPH 14

UPRR property access gate. View looking east.



Site Inspection Checklist

**Aluminum Recycling Trentwood Site - Dross Removal Project
INSPECTION CHECKLIST**

Checklist No.: _____

Date of Inspection: 6-06-2024 **Weather Conditions:** 70°F, Sunny, 0-5 mph Winds, 33 AQI

Inspected by (print name): James Roman

Signature of Inspector: *James Roman*

Inspection Feature	Photo. No.	Overall Condition G/F/P	Problem Severity 0/1/2	Maintenance Required? N/Y	Notes and Comments
Ecological Cap (incl South Slope)					
Erosion	4, 11	G	0	N	No erosion observed
Ponding	7, 9	G	0	N	No ponding observed
Settlement	7, 9	G	0	N	No settlement observed
Slope Failure	4, 11	G	0	N	No slope failure observed
Surface Water Facilities					
Berm	4, 8, 12	G	0	N	
North Ditch	9, 11	G	0	N	
Overflow Channel	7, 11	G	0	N	
Other 1 ^(a) Access Point at Kemira	3	P	2	Y	~5'x6' area of exposed/damaged geotextile
Other 2 ^(a)					
Other 3 ^(a)					
Security					
Site Entrance Gates & Locks	13, 14				
Security Fencing	7, 8, 12, 13				
Warning Signs	NA				
Condition: G = Good F = Fair P = Poor					
Severity: 0 = None or minor, feature appears stable 1 = Moderate, potential for future problems 2 = Major, function presently compromised					
Indicate problem areas on attached map					
(a) List Other 1 - "Access Point" at Kemira Facility; South end of East Berm, eastern side Evidence of vehicle use (two tracks) that probably caused breach/damage of ecological cap					

Site: Union Pacific Railroad – Aluminum Recycling Trentwood Site

Date/Time of Inspection: 8/08/2024

Inspected by (print name): Jane Bittle (Kemira)

Weather: Sunny

Ecological Cap Inspection

General: The initial 2024 inspection for the Union Pacific Railroad (UPRR) property, Spokane County parcels 45114.9030 and 45114.9181 as required by the Enforcement Order DE 20752 (Ecology 2021) was conducted on June 6, 2024. Evidence of vehicle use (tire tracks) was present at the Kemira Water Solutions, Inc. (Kemira) Facility access point to the inside of the bermed portion of the cap. An area approximately 5-foot by 6-foot of geotextile was damaged and underlying material were exposed as documented in the June 6 Inspection Log photographs 3A and 3B.

Ecological Cap Repair:

Kemira repaired the damaged to cap during the week of July 29th. Repairs were performed by the original remediation contractor GrayMar Environmental. Photographs of the repaired cap area are provided in the attached Photolog.

References

- 1) Washington State Department of Ecology (Ecology). 2021. Union Pacific Railroad Company. Enforcement Order No. DE 20752. Aluminum Recycling Trentwood Site. September.

Photolog

**ADDENDUM
PHOTOGRAPH 1**

Ecological cap damage repair
facing west, August 2, 2024



**ADDENDUM
PHOTOGRAPH 2**

Ecological cap repair area
facing southwest, August 2,
2024

